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New immunogenic peptide(s) derived from envelope glycoprotein(s) of HIV-1 - for diagnosing and preventing HIV-1 infection

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Patent Family (1 patents, 1 countries)

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Patent Details

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FR 2677364	A1	FR	34	0		

Alerting Abstract FR A1
New immunogenic peptide sequences (I) correspond to all or part of the chain VVIRSANFTDNAKT, opt. modified by substitution, deletion or addn. of at least one amino acid. Also new are (1) hybrid molecules (II) contg. (I) plus a heterologous amino acid chain or particle able to generate antibodies specific for (I); (2) oligomers (Ia) contg. at least 2 (I) units; (3) nucleic acid (III) which encodes (I); (4) polyclonal and monoclonal antibodies (Ab) able to recognise (I) and (5) hybridomas which produce monoclonal Ab.
Specifically, (I) contain as a min. the sequence NFTDN and (II) contain as their heterologous component bovine serum albumin; hepatitis B surface antigen; lam B; malE or keyhole limpet haemocyanin.
USE - (I), or equivalently (II) and (Ia), induce formation of antibodies which neutralise HIV (specifically the HIV-1 isolates BRU, MN and RF) so are useful in protective vaccines, opt. together with other immunogenic HIV sequences. Ab can be used to diagnose presence of HIV-antigens while (I) can be used to detect HIV-related antibodies and for treatment of HIV infections. Anti-idiotypic antibodies, raised against Ab, can be used to detect antibodies, as immunogens and in immunotherapy. Viruses or bacteria transformed with (III) may be used as live vaccines.

Title Terms /Index Terms/Additional Words: NEW; IMMUNOGENIC; PEPTIDE; DERIVATIVE; ENVELOPE; GLYCO; PROTEIN; HIV; DIAGNOSE; PREVENT; INFECT